

CHEM 110-02

GENERAL CHEMISTRY LABORATORY II

Spring 2008

2:00 - 2:50 pm, M, CNSB 345 (Prelab)

3:00 - 5:00 pm, M, CNSB 232 (Lab)

INSTRUCTOR INFORMATION

Instructor:	Dr. G. L. Findley
Office:	CNSB 202
Office Hours:	11:00 am - 1:00 pm MTuWThF
Telephone:	342-1835
email:	findley@ulm.edu
webpage:	www.ulm.edu/~findley

COURSE

Content: A laboratory course to accompany CHEM 108 including qualitative analysis.

Goals/

Objectives: Mastery of selected laboratory methods that illustrate principles of inorganic qualitative analysis introduced in General Chemistry II (CHEM 108).

REQUIREMENTS

Prerequisite: "C" or better in CHEM 109; credit or registration in CHEM 108.

Text: *Chemistry 110 Lab Manual* (Department of Chemistry, ULM, 2002).

Material

Covered: All experiments in the Lab Manual.

Attendance: It is your responsibility to attend and to be punctual. *Do not come late.* **Any laboratory missed due to an *excused* absence must be made up during another assigned laboratory period.** To obtain permission to make up a laboratory, you must verify with the course instructor whether or not an absence is excused according to the ULM *Student Policy Manual*. This *Manual*, which may be accessed at www.ulm.edu/studentpolicy, also provides information concerning academic integrity and student services.

EVALUATION

Laboratories: There are 13 laboratories, including the Syllabus/Safety Lecture/Check-in laboratory and the Final Exam/Check-out laboratory. There are eight prelab quizzes, each worth 10 pts, and a comprehensive final examination that counts as two additional quizzes (20 pts). There are 100 pts apportioned among the various unknowns issued during the course. (If a student misses a prelab quiz because of an *excused* absence, this work may be made up -- with prior arrangement and with permission of the instructor -- by taking a make-up quiz that covers the entire course, and that will be given immediately following the final examination.)

Grading:

prelab quizzes (8, 10 pts each)	80 pts	A	180 - 200 pts
unknowns	100 pts	B	160 - 179
final examination	<u>20 pts</u>	C	140 - 159
COURSE TOTAL	200 pts	D	120 - 139
		F	< 120

Mid-term grades will be posted on-line for students to view via Arrow. Mid-term grades indicate a student's status at Mid-semester only and do not indicate the final outcome performance of a student.

DEPARTMENTAL DROP POLICY (www.ulm.edu/chemistry/courses/drop_policy.html) For students who are currently enrolled in CHEM 108 (and have not previously passed CHEM 108), if you drop CHEM 108 you cannot remain in CHEM 110 without permission. The final day to drop a class is April 2.

NOTE: You must wear eye protection at all times while in the laboratory. Hats, shorts, skirts, bare-midriiffs and open-toed shoes are not allowed in the laboratory. Cell phones are not permitted. Failure to comply with these rules will result in your being ejected from the laboratory.

SCHEDULE OF LABORATORIES

Lab	Date	Quiz	Lecture Material	Lab Work	Unknown Issued
01	Jan 14		Syllabus. Needs, Books, Course description, Grading, Safety	Check-in Fill Kits	
02	Jan 28		Qualitative analysis scheme, G-I reactions	G-I U	G-I U, 6 pts
03	Feb 11	Q1 pp 9-16	Procedure 5, G-II separations	G-I U, G-II K	
04	Feb 18	Q2 pp 16-20 and G-II separations	G-II identifications	G-II K, U	G-II U, 10 pts
05	Feb 25	Q3 pp 16-20 and G-II identifications	G-III separations	G-II U	
06	Mar 3	Q4 pp 23-31 and G-III separations	G-III identifications	G-III K	G-III U, 14 pts
07	Mar 10	Q5 pp 27-31 and G-III identifications	Flame tests and G-IV reactions	G-III U	
08	Mar 17	Q6 pp 32-34	Anion Exps 1-3 p 37	G-IV K	G-IV U, 12 pts
09	Mar 31	Q7 pp 37-41 Blanket anion tests	Specific anion tests	G-IV U Exps 1-3	Fill in pp 39-40, 10 pts
10	Apr 7		Anion reactions continued	Proc 31-40 Anion U	Anion U, 20 pts
11	Apr 14	Q8 pp 41-45 Specific anion tests	Salt analysis, Proc 41	Anion U Single Salt U	SSU-1, 14 pts SSU-2, 14 pts
12	Apr 21			Single Salt U	
13	Apr 28	Q9/10 pp 9-48	Comprehensive final examination (counts as two quizzes)	Single Salt U Check-out	

CHEM 110-04

GENERAL CHEMISTRY LABORATORY II

Spring 2008

2:00 - 2:50 pm, Tu, CNSB 101 (Prelab)

3:00 - 5:00 pm, Tu, CNSB 235 (Lab)

INSTRUCTOR INFORMATION

Instructor:	Dr. G. L. Findley
Office:	CNSB 202
Office Hours:	11:00 am - 1:00 pm MTuWThF
Telephone:	342-1835
email:	findley@ulm.edu
webpage:	www.ulm.edu/~findley

COURSE

Content: A laboratory course to accompany CHEM 108 including qualitative analysis.

Goals/

Objectives: Mastery of selected laboratory methods that illustrate principles of inorganic qualitative analysis introduced in General Chemistry II (CHEM 108).

REQUIREMENTS

Prerequisite: "C" or better in CHEM 109; credit or registration in CHEM 108.

Text: *Chemistry 110 Lab Manual* (Department of Chemistry, ULM, 2002).

Material

Covered: All experiments in the Lab Manual.

Attendance: It is your responsibility to attend and to be punctual. *Do not come late.* **Any laboratory missed due to an *excused* absence must be made up during another assigned laboratory period.** To obtain permission to make up a laboratory, you must verify with the course instructor whether or not an absence is excused according to the ULM *Student Policy Manual*. This *Manual*, which may be accessed at www.ulm.edu/studentpolicy, also provides information concerning academic integrity and student services.

EVALUATION

Laboratories: There are 13 laboratories, including the Syllabus/Safety Lecture/Check-in laboratory and the Final Exam/Check-out laboratory. There are eight prelab quizzes, each worth 10 pts, and a comprehensive final examination that counts as two additional quizzes (20 pts). There are 100 pts apportioned among the various unknowns issued during the course. (If a student misses a prelab quiz because of an *excused* absence, this work may be made up -- with prior arrangement and with permission of the instructor -- by taking a make-up quiz that covers the entire course, and that will be given immediately following the final examination.)

Grading:

prelab quizzes (8, 10 pts each)	80 pts	A	180 - 200 pts
unknowns	100 pts	B	160 - 179
final examination	<u>20 pts</u>	C	140 - 159
COURSE TOTAL	200 pts	D	120 - 139
		F	< 120

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NOTE: You must wear eye protection at all times while in the laboratory. Hats, shorts, skirts, bare-midriiffs and open-toed shoes are not allowed in the laboratory. Cell phones are not permitted. Failure to comply with these rules will result in your being ejected from the laboratory.

SCHEDULE OF LABORATORIES

Lab	Date	Quiz	Lecture Material	Lab Work	Unknown Issued
01	Jan 15		Syllabus. Needs, Books, Course description, Grading, Safety	Check-in Fill Kits	
02	Jan 29		Qualitative analysis scheme, G-I reactions	G-I U	G-I U, 6 pts
03	Feb 12	Q1 pp 9-16	Procedure 5, G-II separations	G-I U, G-II K	
04	Feb 19	Q2 pp 16-20 and G-II separations	G-II identifications	G-II K, U	G-II U, 10 pts
05	Feb 26	Q3 pp 16-20 and G-II identifications	G-III separations	G-II U	
06	Mar 4	Q4 pp 23-31 and G-III separations	G-III identifications	G-III K	G-III U, 14 pts
07	Mar 11	Q5 pp 27-31 and G-III identifications	Flame tests and G-IV reactions	G-III U	
08	Mar 18	Q6 pp 32-34	Anion Exps 1-3 p 37	G-IV K	G-IV U, 12 pts
09	Apr 1	Q7 pp 37-41 Blanket anion tests	Specific anion tests	G-IV U Exps 1-3	Fill in pp 39-40, 10 pts
10	Apr 8		Anion reactions continued	Proc 31-40 Anion U	Anion U, 20 pts
11	Apr 15	Q8 pp 41-45 Specific anion tests	Salt analysis, Proc 41	Anion U Single Salt U	SSU-1, 14 pts SSU-2, 14 pts
12	Apr 22			Single Salt U	
13	Apr 29	Q9/10 pp 9-48	Comprehensive final examination (counts as two quizzes)	Single Salt U Check-out	

CHEM 110-05

GENERAL CHEMISTRY LABORATORY II

Spring 2008

2:00 - 2:50 pm, W, CNSB 343 (Prelab)

3:00 - 5:00 pm, W, CNSB 230 (Lab)

INSTRUCTOR INFORMATION

Instructor:	Dr. G. L. Findley
Office:	CNSB 202
Office Hours:	11:00 am - 1:00 pm MTuWThF
Telephone:	342-1835
email:	findley@ulm.edu
webpage:	www.ulm.edu/~findley

COURSE

Content: A laboratory course to accompany CHEM 108 including qualitative analysis.

Goals/

Objectives: Mastery of selected laboratory methods that illustrate principles of inorganic qualitative analysis introduced in General Chemistry II (CHEM 108).

REQUIREMENTS

Prerequisite: "C" or better in CHEM 109; credit or registration in CHEM 108.

Text: *Chemistry 110 Lab Manual* (Department of Chemistry, ULM, 2002).

Material

Covered: All experiments in the Lab Manual.

Attendance: It is your responsibility to attend and to be punctual. *Do not come late.* **Any laboratory missed due to an excused absence must be made up during another assigned laboratory period.** To obtain permission to make up a laboratory, you must verify with the course instructor whether or not an absence is excused according to the ULM *Student Policy Manual*. This *Manual*, which may be accessed at www.ulm.edu/studentpolicy, also provides information concerning academic integrity and student services.

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Grading:

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unknowns	100 pts	B	160 - 179
final examination	<u>20 pts</u>	C	140 - 159
COURSE TOTAL	200 pts	D	120 - 139
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Lab	Date	Quiz	Lecture Material	Lab Work	Unknown Issued
01	Jan 16		Syllabus. Needs, Books, Course description, Grading, Safety	Check-in Fill Kits	
02	Jan 30		Qualitative analysis scheme, G-I reactions	G-I U	G-I U, 6 pts
03	Feb 13	Q1 pp 9-16	Procedure 5, G-II separations	G-I U, G-II K	
04	Feb 20	Q2 pp 16-20 and G-II separations	G-II identifications	G-II K, U	G-II U, 10 pts
05	Feb 27	Q3 pp 16-20 and G-II identifications	G-III separations	G-II U	
06	Mar 5	Q4 pp 23-31 and G-III separations	G-III identifications	G-III K	G-III U, 14 pts
07	Mar 12	Q5 pp 27-31 and G-III identifications	Flame tests and G-IV reactions	G-III U	
08	Mar 19	Q6 pp 32-34	Anion Exps 1-3 p 37	G-IV K	G-IV U, 12 pts
09	Apr 2	Q7 pp 37-41 Blanket anion tests	Specific anion tests	G-IV U Exps 1-3	Fill in pp 39-40, 10 pts
10	Apr 9		Anion reactions continued	Proc 31-40 Anion U	Anion U, 20 pts
11	Apr 16	Q8 pp 41-45 Specific anion tests	Salt analysis, Proc 41	Anion U Single Salt U	SSU-1, 14 pts SSU-2, 14 pts
12	Apr 23			Single Salt U	
13	Apr 30	Q9/10 pp 9-48	Comprehensive final examination (counts as two quizzes)	Single Salt U Check-out	

CHEM 110-50

GENERAL CHEMISTRY LABORATORY II

Spring 2008

6:00 - 6:50 pm, Tu, CNSB 100 (Prelab)

7:00 - 9:00 pm, Tu, CNSB 233 (Lab)

INSTRUCTOR INFORMATION

Instructor:	Dr. G. L. Findley
Office:	CNSB 202
Office Hours:	11:00 am - 1:00 pm MTuWThF
Telephone:	342-1835
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